

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Application No. : (To Be Assigned) Confirmation No. : (TBA)  
PCT/JP2004/010428  
First Named Inventor : Yasushi NAGAMUNE  
Filed : January 18, 2006  
TC/A.U. : (To Be Assigned)  
Examiner : (To Be Assigned)  
Docket No. : 102212.57243US  
Customer No. : 23911  
Title : Optical Sensor

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. §§ 1.97 AND 1.98**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, the attached Form PTO-1449 lists documents which the Examiner may deem relevant to patentability of the claims of the above-identified application.

**I. Time Period of Submission**

This Information Disclosure Statement is submitted:

☒ 1) no later than three months from the application's filing date or 2) before the mailing date of the first Office Action on the merits (whichever is later) or 3) before a first Office Action after the filing of a Request for Continued Examination, and therefore no statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

☐ 2) after the later of three months from the application's filing date and the mailing date of the first Office Action on the merits, but before a Final Office Action, a Notice of Allowance, or an action closing prosecution (*Ex parte Quayle*), (whichever is earlier), and therefore Applicant is filing concurrently herewith:

☐ a Statement under 37 C.F.R. § 1.97(e); or

☐ a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

☐ 3) after either a Final Office Action or a Notice of Allowance, but before payment of the Issue Fee, and therefore Applicant is submitting herewith:

a Statement under 37 C.F.R. § 1.97(e); and

a fee in the amount of \$180.00 under 37 C.F.R. § 1.17(p).

☐ 4) within 30 days of receipt by any individual designated in 37 C.F.R. § 1.56(c) of a communication from a foreign patent office in a counterpart application in which each item of information contained in this information disclosure statement was first cited, and therefore Applicant is submitting herewith:

a Statement under 37 C.F.R. § 1.704(d).

II. Statement Under 37 C.F.R. § 1.97(e)

☐ I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement; or

☐ I hereby state that no item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application, and, to my knowledge after making a reasonable inquiry, no item of information contained in this Information Disclosure Statement was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement; or

☐ I hereby state that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart application and that this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this Information Disclosure Statement.

III. Submission of Non-English Language Documents

☒ The following is a concise explanation of relevance of the non-English language documents listed in the attached Form PTO-1449:

☒ The relevance of document(s) AF to the subject matter of the present invention is/are provided in the specification of the above-identified application.

☒ Corresponding foreign or international report(s) citing document(s) AC-AK, together with an English-language version(s) (if not already

in English) of that portion of the report(s) indicating the degree of relevance found by the foreign office(s) is/are submitted.

☒ English language family member publication(s) of document(s) AC and AF is/are noted on Form PTO-1449.

☒ English language abstract(s) is/are submitted for document(s) AC, AD, AF, AG and AH.

☐ English translation(s) of the foreign language document(s) \_\_\_\_\_ is/are submitted herewith.

☒ Applicant submits the following explanations: The International Search Report lists as a category "A" document JP 2003-517604 A (Konica Corp.), which appears to be an error as the proper Japanese document is JP 2003-179234 provided herein and for which US 2003/0047729 A is a family member.

IV. Continuations/Divisionals/PCT National Stage Applications

☐ Documents \_\_\_\_\_ were of record in parent application Serial No. \_\_\_\_\_, filed \_\_\_\_\_, from which this application claims benefit. As provided in 37 C.F.R. §1.98(d), copies of the documents are not being provided since they were previously submitted to or cited by the United States Patent and Trademark Office in the afore-mentioned parent application.

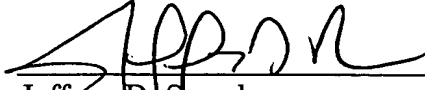
☐ Copies of document(s) listed on the attached form PTO-1449 have already been provided by the International Searching Authority, therefore, duplicate copies are not attached hereto.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

If necessary, this paper should be considered as an authorization to charge Deposit Account 05-1323, Attorney Docket No.: 102212.57243US, for the fee set forth in 37 C.F.R. § 1.17(p).

Respectfully submitted,

January 18, 2006

  
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JDS:lck  
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Substitute for form 1449A/PTO			<b>Complete if Known</b> <b>10/564936</b>	
<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			Application Number	(To Be Assigned) PCT/JP2004/010428
			Filing Date	January 18, 2006
			First Named Inventor	Yasushi NAGAMUNE
			Art Unit	(To Be Assigned)
			Examiner Name	(To Be Assigned)
Sheet 1 of 2	Attorney Docket Number		102212.57243US	

U.S. PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)				
	AA	US- 2003/0047729	A1	03/13/2003	HIRAI, ET AL.	
	AB	US- 2003/0189235	A1	10/09/2003	WATANABE, ET AL.	
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FOREIGN PATENT DOCUMENTS						
Examiner Initials <sup>1</sup>	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				
	AC	JP 2003-303978 A	10/24/2003	FUJI XEROX CO., LTD.	See AB Above	ABS
	AD	JP 2003-282924 A	10/03/2003	FUJITSU LTD.		ABS
	AE	JP 2003-517604 A	05/27/2003	KONICA CORP.		
	AF	JP 2003-179234 A	06/27/2003		See AA Above	
	AG	WO 02/054505 A2	07/11/2002	INTERNATIONAL BUSINESS MACHINES CORPORATION		ABS
	AH	WO 01/44796 A1	06/21/2001	BOARD OF TRUSTEES OF THE LELAND STANFORD JUNIOR UNIVERSITY		ABS
	AI	WO 2004/01395 A1	02/12/2004	SANYO ELECTRIC CO., LTD.		ABS

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Substitute for form 1449B/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete if Known</b> <b>10/564936</b>	
			Application Number	(To Be Assigned) PCT/JP2004/010428
			Filing Date	January 18, 2006
			First Named Inventor	Yasushi NAGAMUNE
			Art Unit	(To Be Assigned)
Examiner Name	(To Be Assigned)			
Sheet 2 of 2	Attorney Docket Number		102212.57243US	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	AJ	R. MARTEL, ET AL. "Single- and Multi-Wall Carbon Nanotube Field-Effect Transistors", Applied Physics Letters, October 26, 2000, pp. 2447-2449, vol. 73, no. 17.	
	AK	M. SHIM, ET AL., "Photoinduced Conductivity Changes in Carbon Nanotube Transistors", Applied Physics Letters, October 27, 2003, pp. 3564-3566, vol. 83, no. 17.	
	AL	INTERNATIONAL SEARCH REPORT dated September 28, 2004 (Four (4) pages)	

Examiner Signature		Date Considered	
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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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